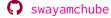
Swayam Chube

☑ chubeswayam1701@gmail.com







This is a list of Mathematics and relevant Computer Science courses I have taken throughout my stay at IIT Bombay. Grades obtained are mentioned alongside the course name.

Mathematics

AA MA403: Real Analysis Instructor: Prof. Santanu Dey

Textbook: Mathematical Analysis by Tom Apostol

AA MA406: General Topology Instructor: Prof. Sandip Singh

Textbook: Topology by Munkres

AA MA408: Measure Theory Instructor: Prof. Santanu Dey

Textbook: Real Analysis by Royden and Fitzpatrick

AP MA410: Multivariable Calculus Instructor: Prof. Preeti Raman

Textbook: Calculus on Manifolds by Spivak

AP MA412: Complex Analysis Instructor: Prof. Shripad Garge

Textbook: Functions of One Complex Variable by Conway

AP MA417: Ordinary Differential Equations Instructor: Prof. Saikat Mazumdar

Textbook: Ordinary Differential Equations and Dynamical Systems by Teschl

AA MA419: Basic Algebra Instructor: Prof. Saurav Bhaumik

Textbook: Abstract Algebra by Dummit and Foote; Algebra by Lang

AA MA503: Functional Analysis Instructor: Prof. Chandan Biswas

Textbook: Functional Analysis by Rudin

AP MA515: Partial Differential Equations Instructor: Prof. Harsha Hutridurga

Textbook: No official textbook. A suggested reference was "Partial Differential Equations: Classical Theory with a Modern Touch" by Nandakumaran and Datti

Classical frictly with a Wodern fouch by Wandakumaran and Date

AA MA521: Theory of Analytic Functions Instructor: Prof. Shripad Garge

Textbook: Functions of One Complex Variable by Conway

AA MA523: Basic Number Theory Instructor: Prof. Ronnie Sebastian

Textbook: A concise introduction to the theory of numbers by Alan Baker

Mathematics (continued)

- AA MA526: Commutative Algebra Instructor: Prof. Jugal Verma Textbook: Commutative Ring Theory by Matsumura; Cohen-Macaulay Rings by Bruns and Herzog
- AA MA5106: Introduction to Fourier Analysis Instructor: Prof. Saikat Mazumdar Textbook: Fourier Analysis: An Introduction by Shakarchi and Stein
- AA MA5110: Non-commutative Algebra Instructor: Prof. Shripad Garge Textbook: Associative Algebras by Pierce
- AA MA811: Algebra I Instructor: Prof. Jugal Verma
 Textbook: Algebra by Serge Lang; Field and Galois Theory by Patrick Morandi
- AA MA812: Algebra II Instructor: Prof. Ronnie Sebastian Textbook: Introduction to Commutative Algebra by Atiyah and MacDonald; Algebra by Serge Lang
- AA MA813: Measure Theory Instructor: Prof. Dipendra Prasad Textbook: Real and Complex Analysis by Rudin
- AA MA815: Differential Topology Instructor: Prof. Manoj Keshari Textbook: Differential Forms in Algebraic Topology by Bott and Tu
- AA MA841: Topics in Algebra I Instructor: Prof. Shripad Garge Textbook: Introduction to Lie Algebras and Representation Theory by Humphreys

Computer Science (relevant courses only)

- AA CS207: Discrete Structures Instructor: Prof. Manoj Prabhakaran
- AB CS213: Data Structures and Algorithms Instructor: Prof. Manoj Prabhakaran
- AA CS228: Logic for Computer Science Instructors: Prof. Krishna S. and Prof. Ashutosh Gupta
- AA CS218: Design and Analysis of Algorithms Instructor: Prof. Mrinal Kumar
- AA CS310: Automata Theory Instructor: Prof. G. Sivakumar
- AA CS779: Extremal Combinatorics Instructor: Prof. Sunder Vishwanathan
- AB CS786: Randomized Algorithms Instructor: Prof. Akash Kumar
- BB CS788: Algebraic Automata Theory Instructor: Prof. Bharat Adsul